



Using OEM filters cost 58% less than using alternative filters.

## Lifetime Costs Report.

# OEM versus Alternative Hydraulic Oil Filters.

### The overall study:

In 2017, Kalmar commissioned three studies with Tampere University of Technology in Finland to evaluate the claim that, even though OEM parts are generally priced higher than alternative parts, they are more economical over the lifetime of the equipment. This test looks at hydraulic oil filters.

### The test:

The alternative hydraulic oil filter used in this test cost 10€ and was approximately 30% cheaper than the OEM part at 14€. However, the alternative filter only had 66 pleats, the OEM filter had 174. The number of pleats in a filter has a direct effect on how it removes unwanted material and remains effective. The greater the number of pleats, the more effective the filter is at removing unwanted material.

The tests concluded that under normal operations the alternative filter would need to be changed every 17 days, while the OEM filter needed to be changed every 46 days.

On the nine year operational period used for this test this would mean you to change:

- The OEM filter 72 times or 6 times a year
- The alternative filter 190 times or 21 times per year.

Based on the given cost for each filter and if correctly serviced and maintained, the annual costs for each filter type would be:

- OEM filter: **224€**
- Alternative filter: **413€**

This demonstrates a significant saving without taking into account the service and maintenance costs or the additional time the machine would need to be out of service.

### The conclusion.

The annual cost of the OEM replacement filters was nearly half that of the alternative filter. The report also concluded, when taking into account the service and maintenance costs, that the annual cost for the alternative filter was 1890€, while the annual cost for the OEM filter was 784€. A savings of 1106€ annually, or an annual saving of 1106€ or 58%.